


Effective Treatments and New Control Techniques

Scott Oneto
University of California
Cooperative Extension
Tuolumne County

Benefits

- More Options
- Increase Efficacy
- More Efficient
- Cost Savings
- Safer
 - Applicator
 - Environment





Giant reed
(*Arundo donax*)



Bend & Spray

***A technique used to treat
Arundo donax and other tall
flexible plants by using a hook
to pull plants toward the
ground for foliar treatment***



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Bend & Spray

- Developed by Sonoma Ecology Center
- Easily constructed from wooden post and PVC





Dip & Clip

A precision method for the control of perennial herbaceous species in sensitive locations

Dip & Clip

- Developed in Lake Tahoe
- Using herbicides in sensitive areas to treat
 - Dalmation toadflax, perennial pepperweed, and diffuse knapweed
- Tools required
 - Hand clippers
 - Jar
 - Herbicide
 - Labor

Dip & Clip

- Clippers are dipped into the herbicide solution
- The solution should not be allowed to drip onto the ground



Dip & Clip

- Weeds are clipped with the flat surface facing downward to maximize the amount of herbicide applied to the cut stem
- Clippers are re-dipped between cuts





Paintinator and Deathstick

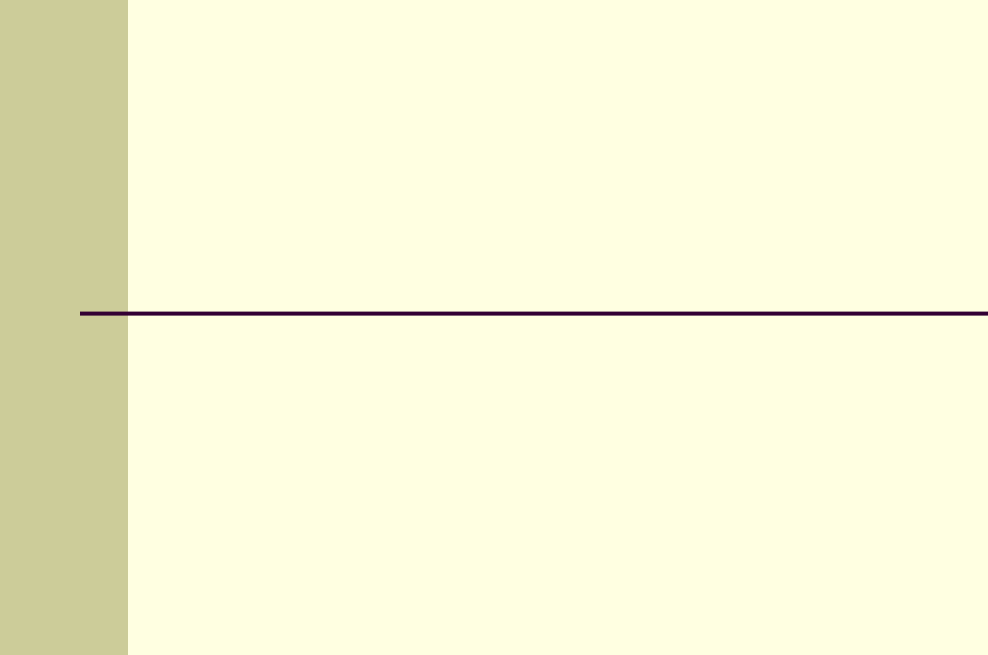
***A precision method for applying
a basal bark or cut stump
treatment***



Paintinator and Deathstick

- Developed by John Bakewell – arborist from MA
- More efficiently apply herbicides in sensitive areas or hard to reach areas











EZ-Ject

A lance used to inject herbicide capsules into woody plants

EZ-Ject

- Uses a lance to inject a herbicide capsule into woody shrubs and trees
- Lance is 5' long and 3" wide
- Lance is placed against base of plant
- Metal teeth at base are pushed into the tree
- With a thrust, a brass capsule is injected into tree



EZ-Ject

- Distributed by Arbor Systems
- Cost:
 - Lance \$425
 - Capsules \$0.10 each



Eco-Weeder

***Weed burning device that
employs infrared
technology to kill weeds***

Eco-Weeder



- Produced by Forevergreen
- Reaches temps $>1000^{\circ}\text{C}$
- Little to no damage to soil microbes
- One person can treat $\frac{3}{4}$ acre in 1 hour with minimal fuel



Eco-Weeder

- Produced in a variety of sizes
 - Punto model (homeowners) \$225
 - Agri IV model (commercial use) \$1500



Hydro Mechanical Obliteration

- Produced by Green Away Plant Control
- Uses high pressure water to control weeds
- Good on annuals, and herbaceous perennials

Drizzle

A modified foliar technique which uses a hand gun to “drizzle” plants with a high concentration of herbicide at a low volume

Drizzle

- Foliar treatment
- Unlike traditional foliar app. apply as a light sprinkle “drizzle” instead of spray to wet
- High concentration (10 - 20% solution)
- Low volume (2 gpa)
- Cost
 - Gun \$100



Drizzle



Drizzle



Critters



Vines and Ovines

***The use of sheep in
vineyards to control weeds***

Vines and Ovines

- The use of sheep in vineyard floor management has been used for years
- Timing is limited to winter and early spring
- Using lithium chloride, aversion trained sheep can effectively graze throughout the spring and early summer



Canines

***The use of dogs to sniff out
“weed”***



Canines



Weed Sniffin Dogs

- Weed sniffin in the wild is extremely complicated
- In a 2006 weed survey, humans found 76%, versus a dog finding 92%
- When using multiple dogs, the success rate was 100%.





Questions?



